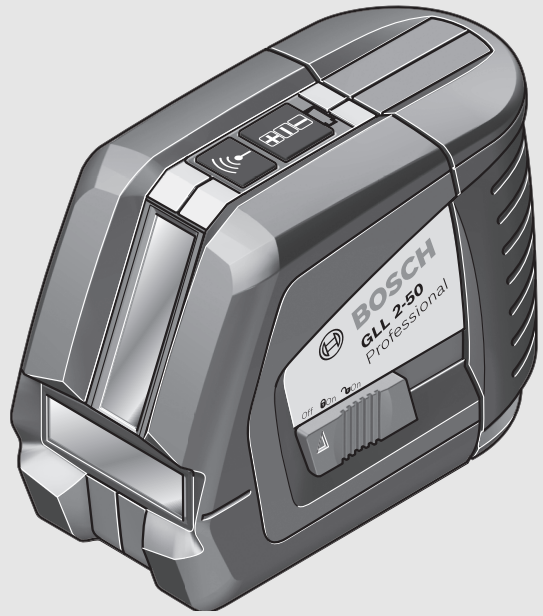
OBJ_BUCH-817-004.book Page 1 Thursday, March 19, 2009 12:28 PM



Robert Bosch GmbH
Power Tools Division
70745 Leinfelden-Echterdingen
Germany

www.bosch-pt.com

1 609 929 S02 (2009.03) T / 334 **XXX**

GLL 2-50 Professional

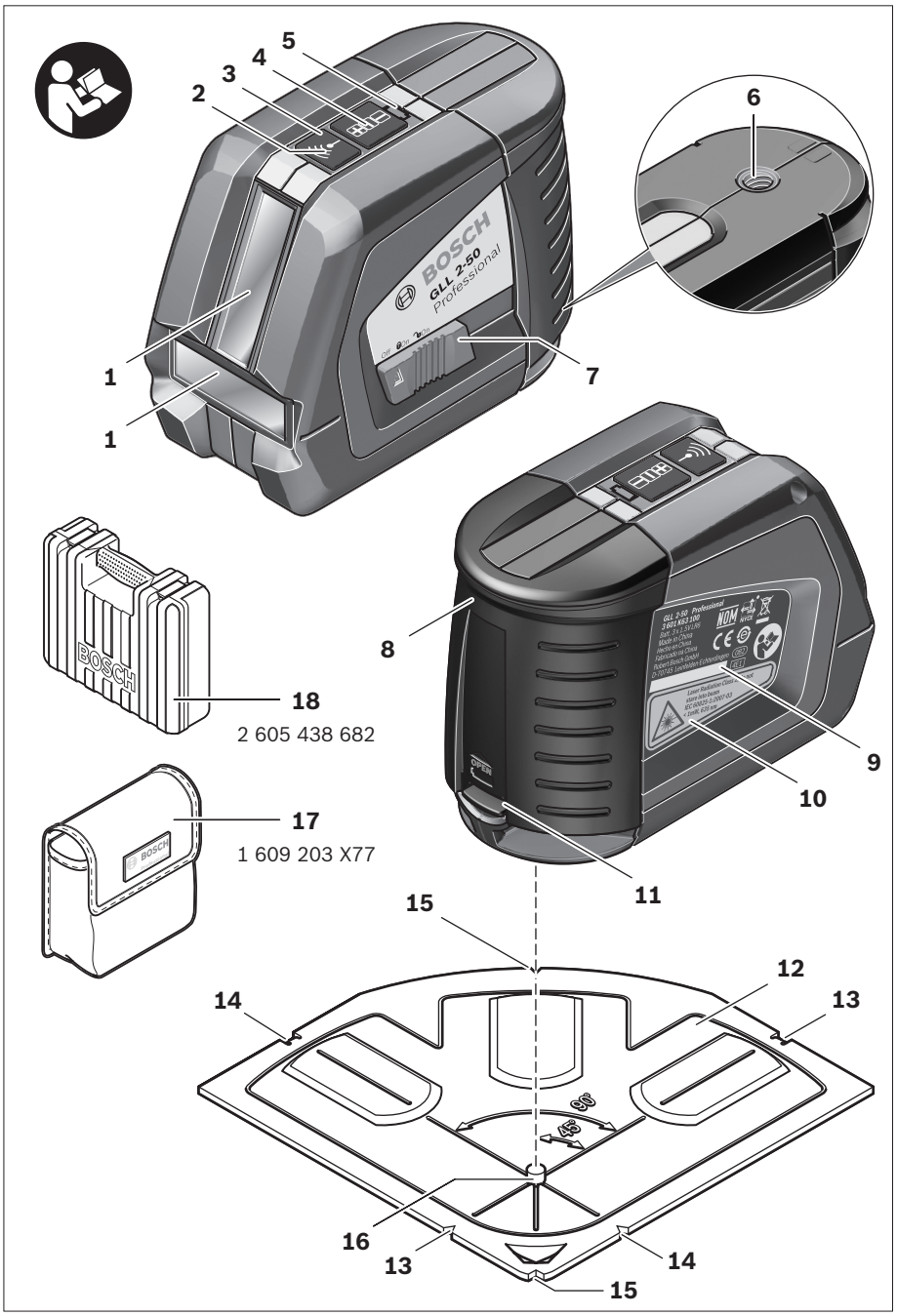
BOSCH

de Originalbetriebsanleitung
en Original instructions
fr Notice originale
es Manual original
pt Manual original
it Istruzioni originali
nl Oorspronkelijke gebruiks-aanwijzing
da Original brugsanvisning
sv Bruksanvisning i original
no Original driftsinstruks
fi Alkuperäiset ohjeet
el Πρωτότυπο οδηγιών χρήσης
tr Orijinal işletme talimatı
pl Instrukcja oryginalna
cs Původní návod k používání
sk Pôvodný návod na použitie
hu Eredeti használati utasítás
ru Оригинальное руководство по эксплуатации
uk Оригінальна інструкція з експлуатації
ro Instrucţiuni originale
bg Оригинална инструкция
sr Originalno uputstvo za rad
sl Izvirna navodila
hr Originalne upute za rad
et Algupärane kasutusjuhend
lv Instrukcijas oriģinālvalodā
lt Originali instrukcija
cn 正本使用说明书
tw 正本使用說明書
ko 사용 설명서 원본
th หนังสือคู่มือการใช้งานฉบับต้นแบบ
id Petunjuk-Petunjuk untuk Penggunaan Orisinal
vi Bảng hướng dẫn nguyên bản
ar تعليمات التشغيل الأصلية
fa راهنمای طرز کار اصلی

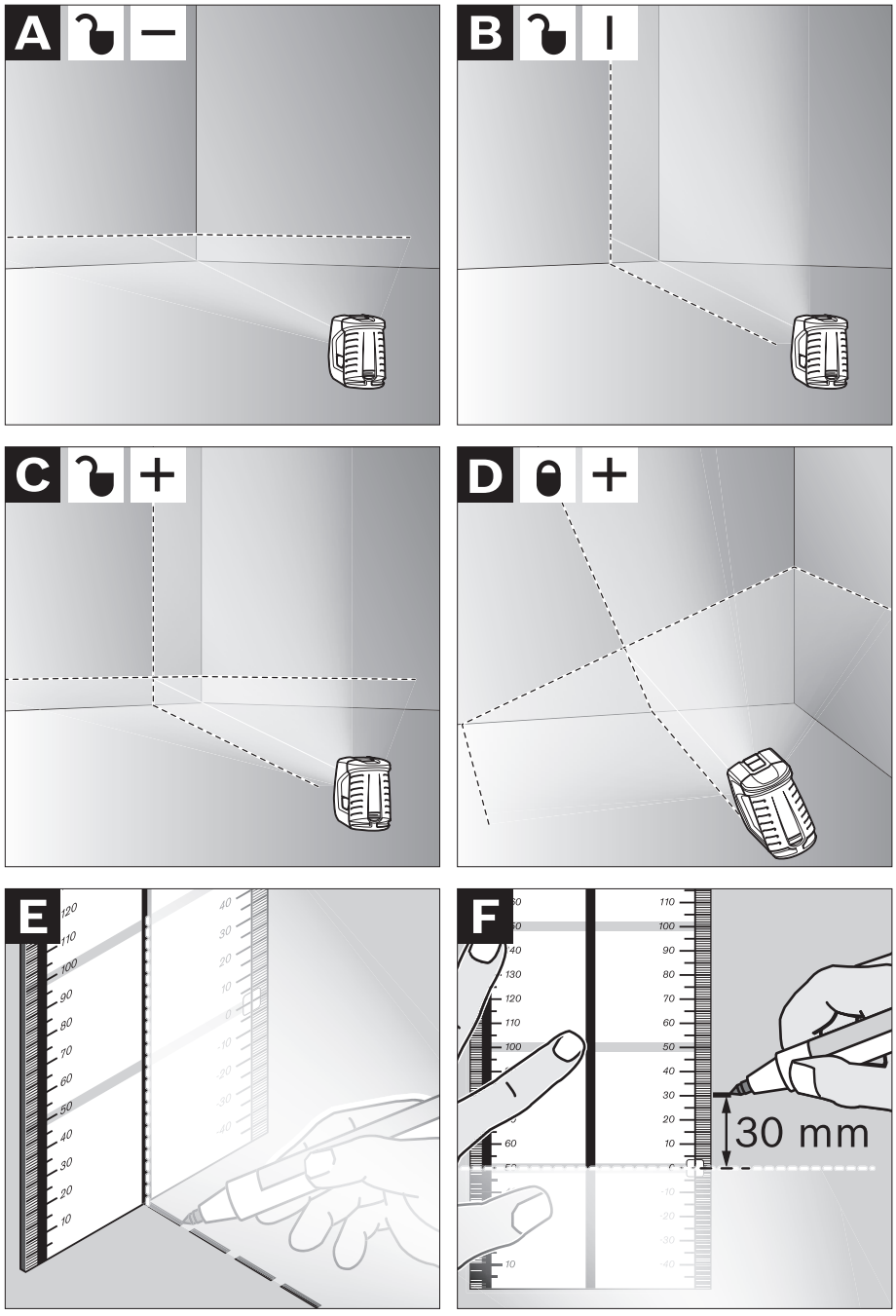
OBJ_BUCH-817-004.book Page 2 Thursday, March 19, 2009 12:32 PM

Deutsch . . . . . Seite 6
English . . . . . Page 16
Français . . . . . Page 27
Español. . . . . Página 37
Português . . . . . Página 47
Italiano . . . . . Pagina 57
Nederlands . . . . . Pagina 67
Dansk . . . . . Side 76
Svenska . . . . . Sida 85
Norsk . . . . . Side 94
Suomi . . . . . Sivu 103
Ελληνικά . . . . . Σελίδα 112
Türkçe . . . . . Sayfa 122
Polski . . . . . Strona 131
Česky . . . . . Strana 141
Slovensky . . . . . Strana 150
Magyar . . . . . Oldal 159
Русский . . . . . Страница 169
Українська . . . . . Сторінка 180
Română . . . . . Pagina 190
Български . . . . . Страница 199
Srpski . . . . . Strana 209
Slovensko . . . . . Stran 218
Hrvatski . . . . . Stranica 227
Eesti . . . . . Lehekülg 236
Latviešu . . . . . Lappuse 245
Lietuviškai . . . . . Puslapis 255
中文 . . . . . 页 265
中文 . . . . . 頁 273
한국어 . . . . . 면 281
ภาษาไทย . . . . . หน้า 289
Bahasa Indonesia . . . . . Halaman 298
Tiếng Việt . . . . . Trang 308
عربي . . . . . صفحة 317
فارسی . . . . . صفحه 325

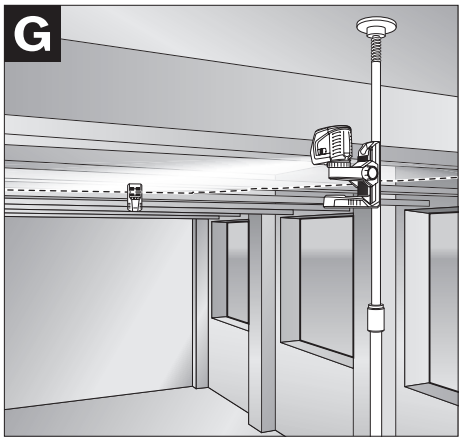
OBJ_BUCH-817-004.book Page 3 Thursday, March 19, 2009 12:32 PM

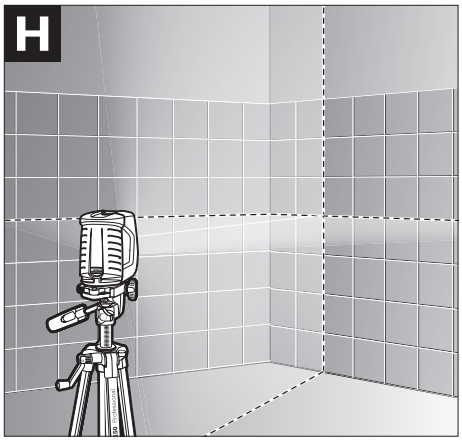


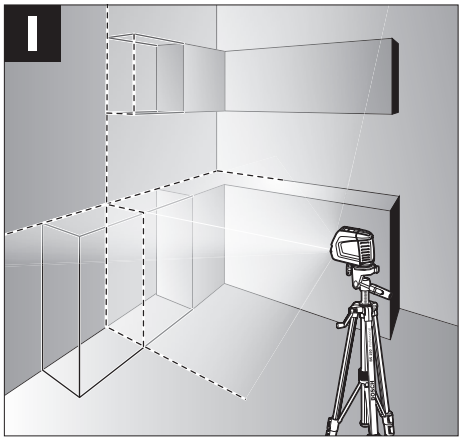
OBJ_BUCH-817-004.book Page 4 Thursday, March 19, 2009 12:32 PM

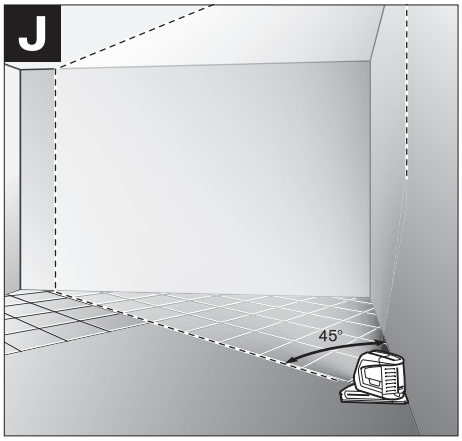


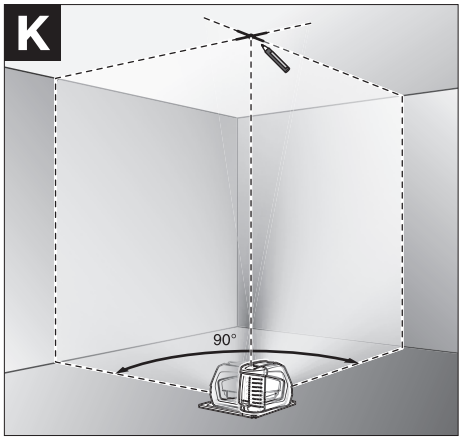
OBJ_BUCH-817-004.book Page 5 Thursday, March 19, 2009 12:32 PM

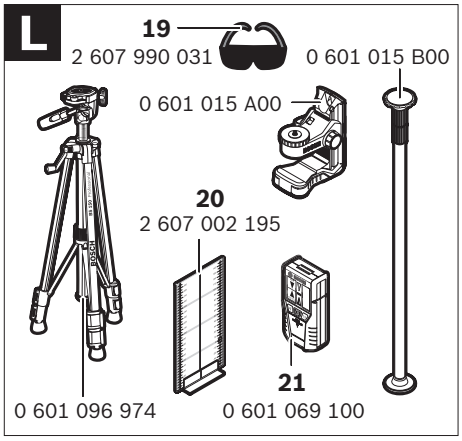










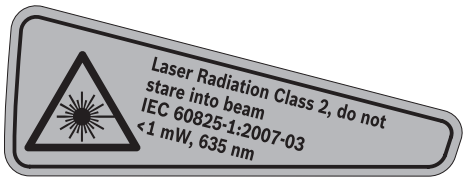


OBJ_BUCH-817-004.book Page 16 Thursday, March 19, 2009 12:32 PM

Safety Notes

Working safely with the measuring tool is possible only when the operating and safety information are read completely and the instructions contained therein are strictly followed. Never make warning labels on the measuring tool unrecognisable. SAVE THESE INSTRUCTIONS.

- **Caution – The use of other operating or adjusting equipment or the application of other processing methods than those mentioned here, can lead to dangerous radiation exposure.**
- **The measuring tool is provided with a warning label in English (marked with number 10 in the representation of the measuring tool on the graphics page).**



Do not direct the laser beam at persons or animals and do not stare into the laser beam yourself. This measuring tool produces laser class 2 laser radiation according to IEC 60825-1. This can lead to persons being blinded.

- **Do not use the laser viewing glasses as safety goggles.** The laser viewing glasses are used for improved visualisation of the laser beam, but they do not protect against laser radiation.
- **Do not use the laser viewing glasses as sun glasses or in traffic.** The laser viewing glasses do not afford complete UV protection and reduce colour perception.
- **Have the measuring tool repaired only through qualified specialists using original spare parts.** This ensures that the safety of the measuring tool is maintained.
- **Do not allow children to use the laser measuring tool without supervision.** They could unintentionally blind other persons or themselves.
- **Do not operate the measuring tool in explosive atmospheres, such as in the presence of flammable liquids, gases or dusts.** Sparks can be created in the measuring tool which may ignite the dust or fumes.

Functional Description

Please unfold the fold-out page with the representation of the measuring tool and leave it unfolded while reading the operating instructions.

Intended Use

The measuring tool is intended for determining and checking horizontal and vertical lines.

OBJ_BUCH-817-004.book Page 17 Thursday, March 19, 2009 12:32 PM

Technical Data

Cross-line Laser	GLL 2-50 Professional
Article number	3 601 K63 1..
Working range – Standard – With pulse function – With laser receiver	 20 m 15 m 50 m
Levelling Accuracy	±0.3 mm/m
Self-levelling range, typically	±4°
Levelling duration, typically	<4 s
Operating temperature	–10 °C ... +50 °C
Storage temperature	–20 °C ... +70 °C
Relative air humidity, max.	90 %
Laser class	2
Laser type	635 nm, <1 mW
C_6	1
Shortest pulse duration	1/1600 s
Tripod mount	1/4"
Batteries	3 x 1.5 V LR6 (AA)
Operating life time, approx.	12 h
Automatic switch-off after approx.	30 min
Weight according to EPTA-Procedure 01/2003	0.45 kg
Dimensions	118 x 57 x 89 mm
Degree of protection	IP 54 (dust and splash water protected)

Please observe the article number on the type plate of your measuring tool. The trade names of the individual measuring tools may vary.

The measuring tool can be clearly identified with the serial number **9** on the type plate.

OBJ_BUCH-817-004.book Page 18 Thursday, March 19, 2009 12:32 PM

Product Features

The numbering of the product features shown refers to the illustration of the measuring tool on the graphic page.

1 Exit opening for laser beam
2 Pulse-function indicator
3 Pulse-function button
4 Operating mode button
5 Battery indicator
6 Tripod mount 1/4"
7 On/Off switch
8 Battery lid
9 Serial number
10 Laser warning label
11 Latch of battery lid
12 Alignment plate*
13 0° alignment aid on the alignment plate
14 90° alignment aid on the alignment plate
15 45° alignment aid on the alignment plate
16 Pin on the alignment plate
17 Protective pouch*
18 Case*
19 Laser viewing glasses*
20 Measurement plate with stand*
21 Laser receiver*

*** The accessories illustrated or described are not included as standard delivery.**

Assembly

Inserting/Replacing the Battery

Use only alkali-manganese batteries.

To open the battery lid **8**, press the latch of the battery lid **11** in the direction of the arrow and remove the battery lid. Insert the supplied batteries. When inserting, pay attention to the correct polarity according to the representation on the inside of the battery compartment.

When the battery indication **5** flashes red, the batteries must be replaced.

Always replace all batteries at the same time. Only use batteries from one brand and with the identical capacity.

- **Remove the batteries from the measuring tool when not using it for extended periods.** When storing for extended periods, the batteries can corrode and discharge themselves.

Operation

Initial Operation

- **Protect the measuring tool against moisture and direct sun irradiation.**
- **Do not subject the measuring tool to extreme temperatures or variations in temperature.** As an example, do not leave it in vehicles for longer periods. In case of large variations in temperature, allow the measuring tool to adjust to the ambient temperature before putting it into operation. In case of extreme temperatures or variations in temperature, the accuracy of the measuring tool can be impaired.
- **Avoid heavy impact or falling of the measuring tool.** After heavy exterior impact on the measuring tool, an accuracy check should always be carried out before continuing to work (see “Levelling Accuracy”).
- **Switch the measuring tool off during transport.** When switching off, the levelling unit, which can be damaged in case of intense movement, is locked.

OBJ_BUCH-817-004.book Page 19 Thursday, March 19, 2009 12:32 PM

Switching On and Off

To **switch on** the measuring tool, push the On/Off switch **7** to the **“ on”** position (when working without automatic levelling) or to the **“ on”** position (when working with automatic levelling). Immediately after switching on, the measuring tool sends laser beams out of the exit openings **1**.

- **Do not point the laser beam at persons or animals and do not look into the laser beam yourself, not even from a large distance.**

To **switch off** the measuring tool, slide the On/Off switch **7** to the **“off”** position. When switching off, the levelling unit is locked.

Deactivating the Automatic Shut-off

The measuring tool switches off automatically after an operating duration of 30 minutes. To deactivate the automatic switch-off, keep the operating mode button **4** pressed for 3 s while switching on the measuring tool. When the automatic switch-off is deactivated, the laser lines briefly flash after 3 s.

- **Do not leave the switched on measuring tool unattended and switch the measuring tool off after use.** Other persons could be blinded by the laser beam.

To activate the automatic shut-off, switch the measuring tool off and then on again (without the operating mode button **4** pushed).

Operating Modes (see figures A–D)

The measuring tool has three operating modes between which you can switch at any time:

– Horizontal operation **“–”**: Produces a horizontal laser line,
– Vertical operation **“I”**: Produces a vertical laser line,
– Cross-line operation **“+”**: Produces a horizontal and vertical laser line.

After switching on, the measuring tool is in cross-line operating mode. To change the operating mode, press the operating mode button **4**.

All three operating modes can be selected either with or without automatic levelling.

Pulse Function

When working with the laser receiver **21**, the pulse function must be activated, – independent of the selected operating mode.

In pulse function, the laser lines flash at very high frequency and thus become detectable for the laser receiver **21**.

To switch on the pulse function, press button **3**. When the pulse function is switched on, the pulse-function indicator **2** lights up green.

When the pulse function is switched on, the visibility of the laser lines is reduced for the human eye. Therefore, shut off the pulse function by pushing button **3** again when working without laser receiver. When the pulse function is switched off, the pulse-function indicator **2** is deactivated.

Automatic Levelling

Working with Automatic Levelling (see figure C)

Position the measuring tool on a level and firm support or attach it to a commercially available photographic tripod.

When working with automatic levelling, push the On/Off switch **7** to the **“ on”** position.

After switching on, the levelling function automatically compensates irregularities within the self-levelling range of ±4°. The measuring tool is levelled in as soon as the laser lines no longer flash.

If the automatic levelling function is not possible, e.g. because the surface on which the measuring tool stands deviates by more than 4° from the horizontal plane, the laser beams flash. In this case, bring the measuring tool to the level position and wait for the self-levelling to take place.

In case of ground vibrations or position changes during operation, the measuring tool is automatically levelled in again. To avoid errors, check the position of the horizontal and vertical laser line with regard to the reference points upon re-levelling.

OBJ_BUCH-817-004.book Page 20 Thursday, March 19, 2009 12:32 PM

Working without Automatic Levelling (see figure D)

For work without automatic levelling, push the On/Off switch **7** to the **“ on”** position. When the automatic levelling is switched off, the laser lines flash continuously.

When the automatic levelling is switched off, the measuring tool can be held by hand or placed on an inclined surface. In cross-line operation, the two laser lines do not necessarily run at a right angle to each other.

Levelling Accuracy

Influences on Accuracy

The ambient temperature has the greatest influence. Especially temperature differences occurring from the ground upward can divert the laser beam.

Because the largest difference in temperature layers is close to the ground, the measuring tool should always be mounted on a tripod when measuring distances exceeding 20 m. If possible, also set up the measuring tool in the centre of the work area.

Apart from exterior influences, device-specific influences (such as heavy impact or falling down) can lead to deviations. Therefore, check the accuracy of the measuring tool each time before starting your work.

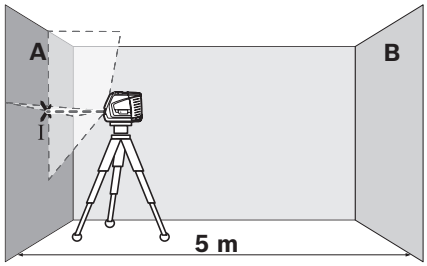
First, check both the height as well as the levelling accuracy of the horizontal laser line, then the levelling accuracy of the vertical laser line.

Should the measuring tool exceed the maximum deviation during one of the tests, please have it repaired by a Bosch after-sales service.

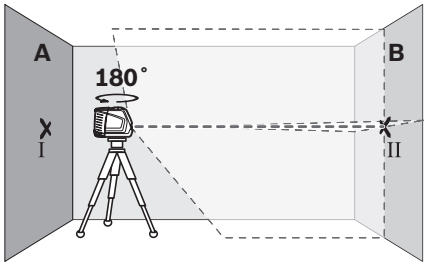
Checking the Height Accuracy of the Horizontal Line

For this check, a free measuring distance of 5 metres on a firm surface between two walls A and B is required.

– Mount the measuring tool onto a tripod or place it on a firm and level survace close to wall A. Switch on the measuring tool. Select cross-line operation with automatic levelling.



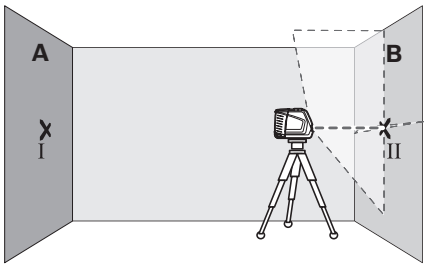
– Direct the laser against the close wall A and allow the measuring tool to level in. Mark the centre of the point where the laser lines cross each other on the wall (point I).



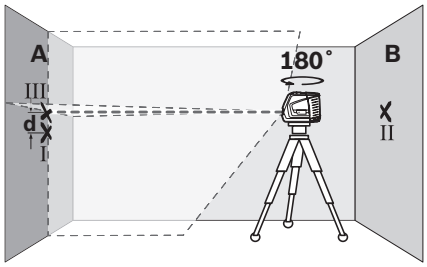
– Turn the measuring tool by 180°, allow it to level in and mark the cross point of the laser lines on the opposite wall B (point II).

OBJ_BUCH-817-004.book Page 21 Thursday, March 19, 2009 12:32 PM

– Without turning the measuring tool, position it close to wall B. Switch the measuring tool on and allow it to level in.



– Align the height of the measuring tool (using a tripod or by underlaying, if required) in such a manner that the cross point of the laser lines is projected against the previously marked point II on the wall B.



– Without changing the height, turn around the measuring tool by 180°. Direct it against the wall A in such a manner that the vertical laser line runs through the already marked point I. Allow the measuring tool to level in and mark the cross point of the laser lines on the wall A (point III).

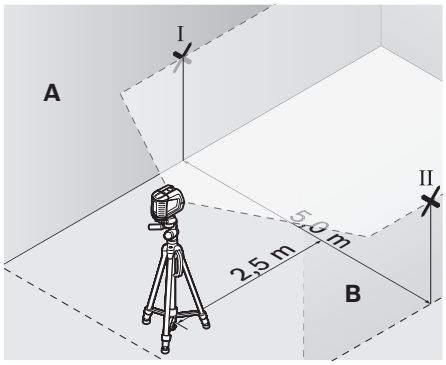
– The difference **d** of both marked points I and III on wall A indicates the actual height deviation of the measuring tool.

The maximum permitted deviation d_{max} is calculated as follows:
d_{max} = double distance of the walls x 0.3 mm/m
Example: With a 5 metre distance between the walls, the maximum deviation must not exceed d_{max} = 2 x 5 m x 0.3 mm/m = 3 mm. Thus, the marks must not be more than 3 mm apart.

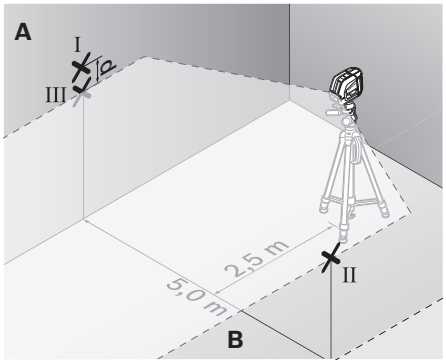
Checking the Levelling Accuracy of the Horizontal Line

For the check, a free surface of approx. 5 x 5 metres is required.

– Set up the measuring tool on a firm, level surface between both walls A and B. Allow the measuring tool to level in while in horizontal operation.



– At a distance of 2.5 metres from the measuring tool, mark the centre of the laser line (point I on wall A and point II on wall B) on both walls.



– Set up the measuring tool 5 metres away turned by 180° and allow it to level in.

– Align the height of the measuring tool (using a tripod or by underlaying, if required) in such a manner that the centre of the laser line is projected exactly against the previously marked point II on wall B.

OBJ_BUCH-817-004.book Page 22 Thursday, March 19, 2009 12:32 PM

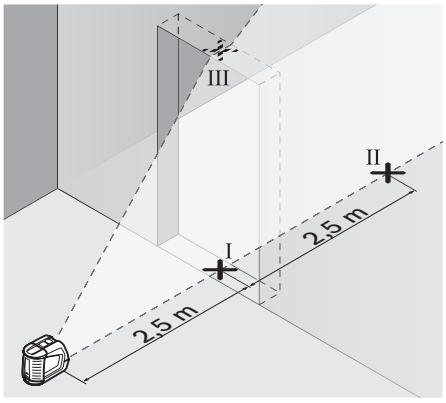
– Mark the centre of the laser line as point III (vertically above or below point I) on the wall A.
– The difference **d** of both marked points I and III on wall A indicates the actual deviation of the measuring tool from the level plane.

The maximum permitted deviation d_{max} is calculated as follows:
d_{max} = double distance of the walls x 0.3 mm/m
Example: With a 5 metre distance between the walls, the maximum deviation must not exceed d_{max} = 2 x 5 m x 0.3 mm/m = 3 mm. Thus, the marks must not be more than 3 mm apart.

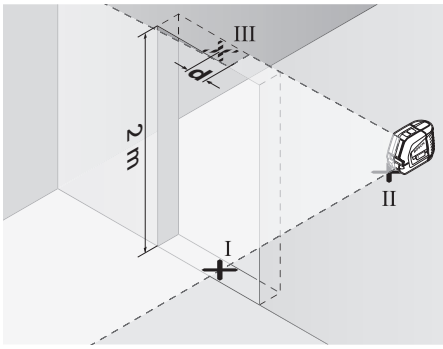
Checking the Levelling Accuracy of the Vertical Line

For this check, a door opening is required with at least 2.5 metres of space (on a firm surface) to each side of the door.

– Position the measuring tool on a firm, level surface (not on a tripod) 2.5 m away from the door opening. Allow the measuring tool to level in while in cross-line operation mode, and direct the laser beams at the door opening.



– Mark the centre of the vertical laser line at the floor of the door opening (point I), at a distance of 5 metres beyond the other side of the door opening (point II) and at the upper edge of the door opening (point III).



– Position the measuring tool on the other side of the door opening directly behind point II. Allow the measuring tool to level in and align the vertical laser line in such a manner that its centre runs exactly throught points I and II.
– The difference **d** between point III and the centre of the laser line at the upper edge of the door opening results in the actual deviation of the measuring tool from the vertical plane.
– Measure the height of the door opening.

The maximum permitted deviation d_{max} is calculated as follows:
d_{max} = double height of the door opening x 0.3 mm/m
Example: With a door opening height of 2 metres, the maximum permitted deviation is d_{max} = 2 x 2 m x 0.3 mm/m = 1.2 mm. Thus, the marks must not be more than 1.2 mm apart.

OBJ_BUCH-817-004.book Page 23 Thursday, March 19, 2009 12:32 PM

Working Advice

- **Always use the centre of the laser line for marking.** The width of the laser line changes with the distance.

Working with the Alignment Plate

With the alignment plate **12**, the measuring tool can be aligned by a reference line or the vertical laser line can be indicated at an angle of 45° or 90° to a reference line.

Position the measuring tool via the tripod mount **6** onto the pin **16** of the alignment plate. Position it in such a manner on the alignment plate that the vertical laser line (depending on the requested angle) runs centrally through the alignment aid **13**, **14** or **15**.

Align the alignment plate **12** with the corresponding alignment aids **13**, **14** or **15** to the desired reference line.

Working with the Measuring Plate (Accessory) (see figures E–F)

With the measuring plate **20**, it is possible to project the laser mark onto the floor or the laser height onto a wall.

With the zero field and the scale, the offset or drop to the required height can be measured and projected at another location. This eliminates the necessity of precisely adjusting the measuring tool to the height to be projected.

The measuring plate **20** has a reflective coating that enhances the visibility of the laser beam at greater distances or in intense sunlight. The brightness intensification can be seen only when viewing, parallel to the laser beam, onto the measuring plate.

Working with the Tripod (Accessory)

A tripod offers a stable, height-adjustable measuring support. Place the measuring tool via the tripod mount **6** onto the 1/4" male thread of the tripod and screw the locking screw of the tripod tight.

Working with the Laser Receiver (Accessory) (see figure G)

Under unfavourable light conditions (bright environment, direct sunlight) and for larger distances, use the laser receiver for improved finding of the laser lines **21**. When working with the laser receiver, switch the pulse function on (see “Pulse Function”, page 19).

Laser Viewing Glasses (Accessory)

The laser viewing glasses filter out the ambient light. This makes the red light of the laser appear brighter for the eyes.

- **Do not use the laser viewing glasses as safety goggles.** The laser viewing glasses are used for improved visualisation of the laser beam, but they do not protect against laser radiation.
- **Do not use the laser viewing glasses as sun glasses or in traffic.** The laser viewing glasses do not afford complete UV protection and reduce colour perception.

Work Examples (see figures H–K)

Laying Flooring Plates at a 45° Angle (see figure J)

Position the measuring tool via the tripod mount **6** onto the pin **16** of the alignment plate. Position it in such a manner on the centred protrusion of the alignment plate **12** that the vertical laser line runs centrally through the alignment aid **15**. Then, align the alignment plate with the alignment aids **13** or **14** with regard to the reference line.

For cross line or in vertical operation, the vertical laser line on the floor indicates a 45° angle to the reference line. Align the flooring plates with regard to this line.

OBJ_BUCH-817-004.book Page 24 Thursday, March 19, 2009 12:32 PM

Projecting Plumb Points to the Ceiling (see figure K)

Draw two lines crossed at a right angle through the point that you want to project to the ceiling. Place the alignment plate **12** onto the crossed lines and align it with the alignment aids **13** and **14** on the cross.

Position the measuring tool via the tripod mount **6** onto the pin **16** of the alignment plate. Position it in such a manner on one of the two outer protrusions on the alignment plate that the vertical laser line runs centrally through the corresponding alignment aid **13** or **14**. Select vertical operation and draw the centre of the line running across the measuring tool to the ceiling.

Turn the measuring tool on the alignment plate by 90°. Pay attention not to move the position of the alignment plate. After levelling in, draw the cross point of the vertical laser line to the already drawn line. The cross point of both lines is the projected plumb point.

Maintenance and Service

Maintenance and Cleaning

Store and transport the measuring tool only in the protective pouch **17** or in the case **18**.

Keep the measuring tool clean at all times.

Do not immerse the measuring tool into water or other fluids.

Wipe off debris using a moist and soft cloth. Do not use any cleaning agents or solvents.

Regularly clean the surfaces at the exit opening of the laser in particular, and pay attention to any fluff of fibres.

If the measuring tool should fail despite the care taken in manufacturing and testing procedures, repair should be carried out by an authorized after-sales service centre for Bosch power tools. Do not open the measuring tool yourself.

In all correspondence and spare parts orders, please always include the 10-digit article number given on the type plate of the measuring tool.

For repairs, only send in the measuring tool in the protective pouch **17** or in the case **18**.

Accessories

Protective Pouch **17**	1 609 203 X77
Case **18**	2 605 438 682
Laser Viewing Glasses **19**	2 607 990 031
Measuring plate with foot **20**	2 607 002 195
Laser Receiver **21**	0 601 069 100
Construction tripod BS 150	0 601 096 974
Universal holder BM 1	0 601 015 A00
Telescopic rod BT 350	0 601 015 B00

After-sales Service and Customer Assistance

Our after-sales service responds to your questions concerning maintenance and repair of your product as well as spare parts. Exploded views and information on spare parts can also be found under:

www.bosch-pt.com

Our customer consultants answer your questions concerning best buy, application and adjustment of products and accessories.

Great Britain

Robert Bosch Ltd. (B.S.C.)
P.O. Box 98
Broadwater Park
North Orbital Road
Denham
Uxbridge
UB 9 5HJ
Tel. Service: +44 (0844) 736 0109
Fax: +44 (0844) 736 0146
E-Mail: SPT-Technical.de@de.bosch.com

Ireland

Origo Ltd.
Unit 23 Magna Drive
Magna Business Park
City West
Dublin 24
Tel. Service: +353 (01) 4 66 67 00
Fax: +353 (01) 4 66 68 88

OBJ_BUCH-817-004.book Page 25 Thursday, March 19, 2009 12:32 PM

Australia, New Zealand and Pacific Islands

Robert Bosch Australia Pty. Ltd.
Power Tools
Locked Bag 66
Clayton South VIC 3169
Customer Contact Center
Inside Australia:
Phone: +61 (01300) 307 044
Fax: +61 (01300) 307 045
Inside New Zealand:
Phone: +64 (0800) 543 353
Fax: +64 (0800) 428 570
Outside AU and NZ:
Phone: +61 (03) 9541 5555
www.bosch.com.au

People's Republic of China

Website: www.bosch-pt.com.cn

China Mainland

Bosch Power Tools (China) Co., Ltd.
567, Bin Kang Road
Bin Jiang District 310052
Hangzhou, P.R.China
Service Hotline: 800 8 20 84 84
Tel.: +86 (571) 87 77 43 38
Fax: +86 (571) 87 77 45 02

HK and Macau Special Administrative Regions

Robert Bosch Hong Kong Co. Ltd.
21st Floor, 625 King's Road
North Point, Hong Kong
Customer Service Hotline: +852 (21) 02 02 35
Fax: +852 (25) 90 97 62
E-Mail: info@hk.bosch.com
www.bosch-pt.com.cn

Indonesia

PT. Multi Tehaka
Kawasan Industri Pulogadung
Jalan Rawa Gelam III No. 2
Jakarta 13930
Indonesia
Tel.: +62 (21) 4 60 12 28
Fax: +62 (21) 46 82 68 23
E-Mail: sales@multitehaka.co.id
www.multitehaka.co.id

Philippines

Robert Bosch, Inc.
Zuellig Building
Sen. Gil Puyat Avenue
Makati City 1200, Metro Manila
Philippines
Tel.: +63 (2) 8 17 32 31
www.bosch.com.ph

Malaysia

Robert Bosch (SEA.) Pte. Ltd.
No. 8a, Jalan 13/6
46200 Petaling Jaya,
Selangor,
Malaysia
Tel.: +6 (03) 7966 3000
Fax: +6 (03) 7958 3838
E-Mail: hengsiang.yu@my.bosch.com
Toll Free Tel.: 1 800 880 188
Fax: +6 (03) 7958 3838
www.bosch.com.sg

Thailand

Robert Bosch Ltd.
Liberty Square Building
No. 287, 11 Floor
Silom Road, Bangrak
Bangkok 10500
Tel.: +66 (2) 6 31 18 79 – 18 88 (10 lines)
Fax: +66 (2) 2 38 47 83
Robert Bosch Ltd., P. O. Box 2054
Bangkok 10501, Thailand

Bosch Service – Training Centre
2869-2869/1 Soi Ban Kluay
Rama IV Road (near old Paknam Railway)
Prakanong District
10110 Bangkok
Thailand
Tel.: +66 (2) 6 71 78 00 – 4
Fax: +66 (2) 2 49 42 96
Fax: +66 (2) 2 49 52 99

OBJ_BUCH-817-004.book Page 26 Thursday, March 19, 2009 12:32 PM

Singapore

Robert Bosch (SEA.) Pte. Ltd.
38 C Jalan Pemimpin
Singapore 915701
Republic of Singapore
Tel.: +65 (3) 50 54 94
Fax: +65 (3) 50 53 27
www.bosch.com.sg

Vietnam

Robert Bosch (SEA) Pte. Ltd – Vietnam
Representative Office
Saigon Trade Center, Suite 1206
37 Ton Duc Thang Street,
Ben Nghe Ward, District 1
HCMC
Vietnam
Tel.: +84 (8) 9111 374 – 9111 375
Fax: +84 (8) 9111376

Disposal

Measuring tools, accessories and packaging should be sorted for environmental-friendly recycling.

Only for EC countries:

Do not dispose of measuring tools into household waste!
According the European Guideline 2002/96/EC for Waste Electrical and Electronic Equipment and its implementation into national right, measuring tools that are no longer usable must be collected separately and disposed of in an environmentally correct manner.

Battery packs/batteries:

Do not dispose of battery packs/batteries into household waste, fire or water. Battery packs/batteries should be collected, recycled or disposed of in an environmental-friendly manner.

Only for EC countries:
Defective or dead out battery packs/batteries must be recycled according the guideline 91/157/EEC.

Batteries no longer suitable for use can be directly returned at:

Great Britain

Robert Bosch Ltd. (B.S.C.)
P.O. Box 98
Broadwater Park
North Orbital Road
Denham
Uxbridge
UB 9 5HJ
Tel. Service: +44 (0844) 736 0109
Fax: +44 (0844) 736 0146
E-Mail: SPT-Technical.de@de.bosch.com

Subject to change without notice.